

STUDIES AMONG THE COCCINELLIDAE, NO. 11
(Coleoptera)

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G. R. Crotch, in April, 1873, erected his genus *Hyperaspidium* on the basis of the absence of an epipleural fovea to receive the posterior femur, and listed *trimaculata* Linn. as the first species. Gorham (*Biologia Centrali-Americana*, page 204) says, in fact, that the foveae are perfectly apparent. Maj. Casey in his revision of the American Coccinellidae, page 130, says this is an aberrant genus of the present tribe, in having the elytral epipleurae devoid of depressions for the posterior femur, and he too puts *trimaculata* Linn. in that genus. On looking my two specimens over I find they have a distinct but shallow fovea and on this ground I am returning *trimaculata* to the genus *Hyperaspis* in my collection. *Hyperaspis trivittata* Ws. from Brazil has the same pattern as *trimaculata* Linn. and could be taken for a variety of it.

Hyperaspidium carri Nunenmacher, new species

Head of the male yellow, finely punctured; of the female black, finely punctured, with a narrow lateral border yellow. Elytra yellow, suture black, gradually dilated to about the middle, then narrowed to just before the apex; and a broad black vitta commencing on the callus and extending to about three-fourths the length of the elytron where it curves inward. In the male it does not join the suture but in the female it does. The margin bead is dark. Ventral surface of male piceous, the legs and epipleura yellow; of female black, the legs and epipleura yellow or darker. Length 2-2.5 mm., width 1-1.5 mm.

Holotype, male, allotype, female, and seven paratypes, MEDICINE HAT, ALTA., May 25, 1934, J. Carr collector. Seven paratypes, CYPRESS HILLS, ALTA., May 2, 1924, F. S. Carr collector. Types and three paratypes in the author's collection. Eleven paratypes in the O. Bryant collection. The specimens came to me labeled *vittigera* Lec., and were kindly given to me by O. Bryant.

Hyperaspidius coloradensis Nunenmacher, new species

Oval, somewhat depressed. Head black, finely punctured. Thorax black, sides very narrowly yellow, sparsely and finely punctured. Elytra yellow; suture narrowly and the same width to the apex black. A broad vitta covering the callus and extending nearly to the apex, where it curves inward and narrows to a point that just reaches the suture. This black vitta is twice the width of the yellow ground color. Ventral surface black, legs and epipleura piceous. Length 2 mm., width 1.5 mm.

Holotype female in the author's collection. COL.—No other data.

Hyperaspidius bryanti Nunenmacher, new species

Head yellow, occiput black and very finely punctured. Thorax yellow with the basal half black, notched in the center, the black not reaching side margins. Very finely punctured. Elytra light yellow with the suture narrowly and the same width to the apex, black. A broad black vitta covering the callus to three-fourths the length of the elytron where it curves inwards and outwards connecting with the suture, and the margin the same width leaving a large oval apical spot. Elytra punctured a little deeper than the thorax. Ventral surface piceous. Epipleura and legs yellow. Length 1.5 mm., width 1 mm.

Holotype, male, in the author's collection, ST. CATALINA MTS., ARIZ., June, 1940, Bryant (Lot 23) collector. One paratype, male, same data? Private label No. 263. No label in O. Bryant's collection. I name this pretty species for its discoverer.

Hyperaspidius subtropicus Nunenmacher, new species

Head of male yellow, very finely punctured; of female, black. Thorax of male finely punctured yellow with the base broadly black, anteriorly four lobed, and extending beyond the middle; of female, black with narrow yellow sides. Elytra punctured a little coarser than the thorax. Yellow suture narrowly black and a black vitta commencing on the callus and extending to a little beyond two-thirds the length of the elytron. Female the same. Ventral surface piceous. Legs and epipleura yellow. All the yellow is a light straw yellow. Length 2 mm., width 1.25 mm.

Holotype, male, and allotype, female, in the author's collection from MEXICO, October, 1907, A. Koebele collector. No other data. Kindly given to me in 1898 under the name *vittigera* Lec. by Mr. Koebele.

Brachyacantha distincta Nunenmacher, new species

Head black, finely and closely punctured. Thorax black, a little more clearly punctured, with broad yellow sides. Elytra black with a large irregular oblong shaped spot that covers most of anterior half of elytra. A large apical spot yellow, commencing at center of base where it is a little wider than half the width of elytron and extending parallel with the suture to a little beyond middle of length of elytron where it expands and almost joins the suture, and ends in a blunt point. Lateral margin starting at the base on inner side of callus and expanding a little just as it frees the callus, then on to about middle of length of elytron, ending in a rounded angle. Punctures a little stronger than on thorax. Apical spot large, round, leaving a narrow space as a suture. Apex and margin black. Ventral surface and legs rufescent except epipleura, meso-, and metasternum which are black. Length 4 mm., width 3 mm.

Holotype, female, in the author's collection from CORUMBA, MATT. GROSSO. No other data.

Brachyacantha neglecta Nunenmacher, new species

Head black, finely punctured. Trophi yellow. Thorax black, sides narrowly yellow and punctured a little stronger. Elytra black with a crude three-pointed star and two spots yellow. A small triangular humeral spot. A broad crescent-shaped spot in middle of elytron with rounded ends that do not reach the suture of the margin, leaving a narrow space black. A branch about half the width from center extending to the same side of scutellum forming star. Apical spot large, about the same distance from suture. Apex and margin punctured a little stronger. Ventral surface and legs black, tarsus rufescent. Epipleura black, yellow at humeral and marginal spots. Length 4 mm., width 3.25 mm.

Holotype, female, and one paratype, female, in author's collection from ETRE. RIOS. ARGENT. No other data.

OBITUARY NOTICE

Professor T. D. A. Cockerell died on the morning of January 26, 1948, at 430 Nutmeg Street, San Diego, California, at the age of 81 years, 5 months. Entomologists all over the world will be sorry to learn of his demise. He was working up to the very last on his bees. A more extensive obituary notice will appear in an early issue of the Pan-Pacific Entomologist.—E. O. ESSIG.